

REMARKS

Claims 1-3, 5-19 and 27-32 were pending in the present application. Claims 4 and 20-26 were previously canceled. Claims 1-3, 5 and 27 have been amended, and claims 33-35 have been added. Accordingly, claims 1-3, 5-19 and 27-35 are currently pending. No new matter has been added. Applicants respectfully request reconsideration of the claims in view of the following remarks.

Applicants have amended the title and corrected a minor typographical error in specification paragraph [0045]. No new matter has been added.

The Examiner rejected claims 1-3, 5, 6 and 27 under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,763,057 (hereinafter “Fullerton”) in view of U.S. Patent No. 6,700,939 (hereinafter “McCorkle”). The Examiner rejected claims 8 and 9 under 35 U.S.C. § 103(a) as being unpatentable over Fullerton and McCorkle as applied to claim 1 above, and further in view of U.S. Patent No. 5,640,698 (hereinafter “Shen”). The Examiner rejected claims 28 and 29 under 35 U.S.C. § 103(a) as being unpatentable over Fullerton and McCorkle as applied to claim 27 above, and further in view of U.S. Patent Publication No. 2001/0033611 (hereinafter “Grimwood”). The Examiner rejected claims 30-32 under 35 U.S.C. § 103(a) as being unpatentable over Fullerton and McCorkle and Grimwood as applied to claim 27 above, and further in view of U.S. Patent Publication No. 2006/0166619 (hereinafter “Roberts”). Finally, the Examiner stated that claim 7 is objected to as being dependent upon a rejected claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Applicants respectfully traverse these rejections.

Amended independent claims 1 and 27 recite “a first sample/hold circuit produces an on-time sample of the demodulated signal and a second sample/hold circuit produces an early and a

late sample of the demodulated signal.” The cited prior art references, taken alone or in combination, do not teach or suggest these claim elements. The Office Action states that Fullerton discloses a timing generating unit

containing circuitry to generate samples of the passed signals at different timing offsets (Fig. 10 elements 22, 24, 25 and elements 31, 22, 24, 25, where the I channel is the early channel and J channel is the delayed channel (column 10 lines 63-66)).

Office Action, p. 3 (citing Fullerton). Fullerton, however, discloses that the two sample/hold circuits operate on *different* demodulated signals generated by separate mixers having different inputs. In contrast, claims 1 and 27 recite that the first and second sample/hold circuits operate on the *same* “demodulated signal.” And substituting in the different delay lines of McCorkle into the separate circuits of Fullerton does not remedy the deficiencies of Fullerton, as Fullerton’s sample/hold circuits would still operate on *different* demodulated signals. Accordingly, Applicants respectfully submit that independent claims 1 and 27 are patentable over the cited prior art.

Claims 2-3, 5-9 and 33 depend from claim 1, and claims 28-32 and 35 depend from claim 27, and add further limitations to their respective base claims. It is respectfully submitted that these dependent claims are allowable by reason of depending from an allowable claim as well as for adding new limitations.

Applicants acknowledge that the Examiner stated that claims 10-19 are allowable. Newly added claim 34 depends from claim 10, and should be allowable by reason of depending from an allowable claim as well as for adding new limitations.

Applicants have made a diligent effort to place the claims in condition for allowance. However, should there remain unresolved issues that require adverse action, it is respectfully requested that the Examiner telephone Applicants' Attorney, Ron Neerings, at 972-917-5299, so that such issues may be resolved as expeditiously as possible. In the event that the enclosed fees are insufficient, please charge any additional fees required to keep this application pending, or credit any overpayment, to Deposit Account No. 20-0668.

Respectfully submitted,

February 20, 2008

Date

SLATER & MATSIL, L.L.P.
17950 Preston Rd., Suite 1000
Dallas, Texas 75252
Tel.: 972-732-1001
Fax: 972-732-9218

/Brian A. Carlson/

Brian A. Carlson
Attorney for Applicants
Reg. No. 37,793